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BALLOON AND AEROPLANE - DESTROYING GUN

to its military defense, and we will owe this unique establish- cannon. ment to the efforts of a young milliontire, John Harry Ryan, son of Thom as F. Ryan, the southern financier, who made millions by consolidating the street railway and lighting systhe available aeroplanes and airships of the country in a potential fleet, similar to the naval militia, and which will be given uniform schooling by the Army Signal corps, has been approved by both the secretary of war and the secretary of the navy.

The organization of this great aerial fleet will cost the government nothing save the time of the instructing officers. The army and navy war col-leges will draw plans of campaign and programs of drill to be carried out at joint maneuvers between land and air forces of defense and offense.

The officers of the new aerial militia ranks and titles, despite the fact that the small aeronautical establishment of the regular service is officered by generals, colonels, majors and other men of army rank.

The commodore of the air fleet will be Mr. Ryan, and his chief of staff will be Clifford M. Harmon, our noted bird-man. Other prominent American aviators who have been prompt in enrolling themselves and who will receive commissions are Glenn H. Curtiss, who recently made his famous who lately broke the world's distance into consideration. record at Asbury Park; Greely S. Curtiss, Charles F. Willard and Ralph Johnstone. The roll will ultimately include as active members practically all the other great aviators of our country such as Hamilton, who lately made the sensational flight from New York to Philadelphia and return; the Wrights, who have just designed a new biplane without front horizontal rudders, and our young millionaire aviators now making progress.

Recruiting work is already in progress and headquarters have been established in New York city.

Function of New Fleet.

The air fleet's monoplanes and biplanes are intended chiefly for scouting, signaling, reconnoltering and service in conjunction with dirigible balloons, where exceedingly rapid movements are needed. They will be not only more difficult to hit than military balloons, but more difficult to destroy when hit, as they can be practically riddled with missiles without being disabled until struck in some vital part of the machinery, which in comparison to the wings and planes presents very small target sur-They can also breast high winds in which dirigible balloons will

not attempt to fly. The aeroplane fleet will be divided into squadrons, it is proposed, which will be divided among our chief har-bors and dockyards, for history shows that all great naval battles of the past have been fought near such They will probably not be points. used either to drop bombs on fleets or fortifications, or to attack the aerial craft of an enemy, despite the fact that these two functions are the principal ones attributed to aerial warships of the future by fiction writers, among whom warfare in the air is now a favorite theme. Military men who have studied aeroplanes in suicidal for one such craft to attempt | and are now bringing \$5,000.

HE United States will be the to ram another, while the bombardfirst nation to institute an ment of such a vehicle in flight will aeronautical reserve auxiliary be as difficult a matter as gunning for birds on the wing with an unwieldy

Bomb-Dropping Impracticable.

As to the dropping of bombs from aeroplanes, the recent experiments of ing dish, put nuts of butter on top Curtiss along this line are regarded and cook covered for fifteen minutes; by military men as having been of tems of New York city. Young Mr. a negative character. Curtiss lamb, duck or boiled veal may be pre-Ryan's scheme to consolidate all of marked out an area representing the pared in the same way, with the subdeck of a battleship, and then tempted to drop imitation bombs or tomato juice. within it. But observers with the Rusan fleet during its engagement with the Japanese can assure the commanders of our future aeronautical fleets no bombs which an aeropiane could carry would do more than make

The aiming of a bomb from a safe tion more complicated than any popular writer on the subject seems ever to have realized. In the first place different air strata and cross-wise air will bear naval rather than military currents are met every hundred feet or so, as is proved by the undulations of kite strings leading to considerable heights. In addition to being played upon by these irregular and constantchanging forces, the bomb dropped from an aeroplane will in its descent describe a curve depending on the exact velocity at which the aerial craft is going when the missile is thrown. Furthermore, altitude, velocity of the target, velocity of the falling bomb. wind velocity and direction of aeroplane-not in a single plane, as in the flight down the Hudson, from Albany case of a ship, but in any of all pos-New York; Walter R. Brookins, sible directions-most all be taken

Armored automobiles for attacking airships are now being developed by the military powers, notably many, which has adopted a motor vebicle beavily armored and armed with high-angle guns for firing at balloons and aeroplanes. These little land monitors weigh four tons and attain a speed of 40 miles on good roads. but our army officers do not think they would cut much figure over rough highways

An airship field gun, which can be brought to bear in any lateral direction, and which can be elevated to an angle of 60 degrees, has been lately turned out by the Krapps. It throws a shell of 8.8 pounds. And another recent Krupp invention for use in such weapons is a flaring shell, designed to explode balloons by setting fire to their gas when striking them. Such inventions appear to be needed by nations wishing to protect them-

selves against war balloons. Hard to Hit Aeropianes.

But our aeroplane fleet will be much more difficult to hit than the dirigible balloons with which they will be operated, not only for the reasons above stated, but for additional ones not hitherto taken into consideration. M. Esnault-Pelterie, a French experimenter, on several occarions this summer stood behind his aeroplane while the propeller was going at full speed and tried to fire shots into the stern of the craft, but all of them were thrown aside by the column of air thrown back spirally by the rapidlyrevolving blades. His experiments seem to indicate that aeroplane operators will be immune from a rear it-

tack by rifle or machine gun fire. The French are now paying \$5,000 aplece for Wright biplanes and \$5,000 for Farmans, while Bleriots, which were \$2,000 before their maker's sucho have studied aeroplanes in cess in crossing the channel, imme-realize that it will always be distely afterward jumped to \$3,000

TO COOK CHICKENS

NEW RECIPES THAT SOUND LIKE GOOD EATING.

Boiled Chicken Mold, Broiled Cold Chicken, Scalloped Chicken and Chicken Croquettes Offer a Great Variety.

Bolled Chicken Mold.-This is an excellent dish and one which would be found most useful for a busy day. Select a friensse fowl and have the butcher save the neck long and cut the nails from the feet. Skin these by soaking them a few minutes in hot water, dismember the rest of the fowl and boil all together until the flesh is tender enough to pick to pieces with the fingers. During the boiling, season the chicken with one large Bermuda onion, several stalks of celery, parsley, cayenne and sait. When done and cool enough to handle, pick all the flesh from the bones, feet, neck, etc., and discard the skin. Chop fine-to almost a paste-and pack in a mold, pouring in some of the boil-water between each layer of chicken. Cover tightly and set on the ice. Turn on cold dish and serve with a trimming of canned pimentos. Only water enough to cover the chicken must be used for the boiling or the mold will not harden. The boll-water must be rich enough to form a jelly.

Brolled Cold Chicken.-Here is good way to vary the monotony of cold fowl, whether boiled or roasted: Take the half or quarter which has not been cut into and rub it over with a marinade of two tablespoonfuls of vinegar and one of lemon juice. Put the fowl between two plates and set aside for three hours. Then rub the oil and lemon juice well into it, dip in egg and then in fine toasted crumbs; set or the ice for an hour, and broll over a medium hot fire, turning often. Make a gravy of melted butter with chopped parsley and a few drops of lemon juice and pour over the dish.

Scalloped Chicken.-Mix two fuls of nicely seasoned chicken, minced finely, with a cupful of boiling oyster liquor, or as much tomato juice. Stir in six chopped mushrooms, the pounded yolk of two hard-boiled eggs and two tablespoonfuls of cream. Add finely toasted bread crumbs and more cresm if needed to make a soft paste. Pack in large clam shells or in a bakthen uncover and brown lightly. Cold Curtiss lamb, duck or boiled veal may be prestitution of a good stock for the cyster

Chicken Croquettes-Stir a cupful of minced cold chicken and the same quantity of sweetbreads together; these last bolled and blanched and also minced finely. Add drawn butter or a little chicken stock thickened a few harmless dents in a great man- lightly with flour. Heat in a vessel net in another containing boiling water, and when heated through take height in the air involves a calcula- from the fire and add a cupful of cream (with a pinch of soda stirred in) and the beaten yolk of two eggs. Mix well, set in a cold place until solid; then mold in round or oblong croquettes. Dip these in beaten egg, then in crumbs and fry a rich brown in boiling cottonseed oil or lard.

Apple Butter.

Put cider into a preserving kettle and boil it until there remains only two-thirds of the original quantity of the liquid. Put into the remaining clder as many peeled and sliced apples as it will cover and boll, stirring often, until the fruit is tender. Proceed in this way until all the cider has been absorbed by the fruit, and then put the cooked apples and juice into a crock in the cellar over night. In the morning put all over the fire and boll, stirring often, to a soft, brown mass. Put away in fars or crocks.

Crabapple Jelly,

Cover crabapples with water and boil very tender; cool and strain through a cloth; measure the juice and to each cup of it allow a cupful of sugar; bott the juice for 20 minutes; then add sugar and boll until a little, put on saucer, begins to jelly; when the jelly is nearly done, add two or three geranium leaves; when pouring into glasses remove the leaves.

Marble Chocolate Cake.

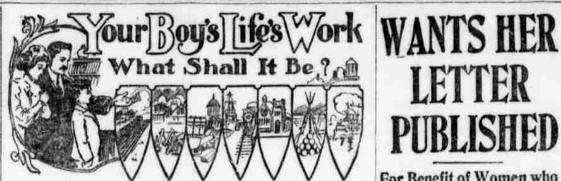
Make a batter as for white cake Take out one teacup, add to it five tablespoons of grated chocolate, wet with milk and flavor with vanilla pour a layer of the white batter into the baking pan, then drop the chocolate batter with a spoon, in spots and spread the remainder of the white bottom over it.

Lemon Pudding.

Soak one cup of bread crumbs b two cups of milk for one-half hour, then add one-half cup of sugar, yolks of two eggs and the grated rind of one lemon, and bake one-half hour. Beat whites of two eggs, add one cup sugar and juice of one lemon. Spread over pudding when done and slightly brown. To be eaten hot or cold.

Chicago Hot.

One peck ripe tomatoes, two cups celery, two onlons, four red peppers, all chopped; one cup white mustard seed, two cups white sugar, one-half cup salt, six cups vinegar, two table poons whole mixed spices; drain tonatoes after chopping, then add other agredients; cook half hour.



CARPENTERI

He'll have to start in as a carpenter's helper of the crudest sort, and his pay will be small, but in the end he may be earning his thousands a year as a building foreman or building superintendent-Also he may be getting a comfortable living as builder on his own book-How he may advance up the ladder of carpentry, and what are changes of doing this, to gether with the pay for each

ctep taken. BY. C. W. JENNINGS.



you watched some young fellow working in the cold on some half-finished building, driving nails with numbed fingers and handling frozen, rough boards,

and you heard that he was getting only about \$2 a day and was a carpenter's helper, there was every evidence to you that there was little more to carpentry than driving nails and putting boards together, ch, what? For you know that the plans of the building were prepared by an architect, and therefore, supposed that all the carpenter had to do was to follow them, which "anybody could do that knew enough to handle a hammer and a saw." As for brain work being required in carpentry, you never imag-ined such a thing. It would be one of the last occupations, possibly, that on would choose for your boy.

But it is never safe to generalize, in this instance particularly; for that same carpenter's helper, if he possessed average intelligence and ambition would in all likelihood be fore man of carpenters within a very few years, and would have a big career in front of him. It all would depend upon his application. Given grit and mbition, a boy can work up through the carpenter's trade to comparative emirance, as well as through most better known lines of work. It requires hard work; but what occupaion does not require hard work to each success?

After you have thought over it for while and learned a few things about it, you might do worse than start your boy in this trade. How to go about it and the requirements?

Well, there are few preliminary requirements to speak of further than that the applicant should be a reasonably healthy boy of about 16 or more. and have had some rudimentary schooling. Go to a boss carpenter at work somewhere and ask him for a If you are successful, as you will be after seeing a few bosses, your boy will be put to work as helper at somewhere round \$5 a week. This work will not be carpentering. The boy knows nothing about it yet, you know, except that he can probably tall a hammer from a square, and he has to learn before he can become one

And so, for the first year, he will be nothing more than the crudest kind of assistant to one of the carpenterscarrying boards and running errands, and after a while, probably sawing off the ends of rough lumber and nailing on joints and scantling. The work will be generally the same if the boy goes into a factory and does what is generally known as inside work, and in the intter he will be advanced at the end of the first year to prabably \$7 week, and be set at beach work, nailing moldings, putting window frames together, etc.

At the end of the second year there will be another promotion to probably \$1.50 a day (pretty good pay for a boy of is who is learning a trade) when he will be a sort of first assistant to one of the master carpenters and be doing pretty advanced things, practically the same work, except the nost particular, that a master does, though, of course, under the latter's direct supervision. His pay will go

up a little, probably to \$1.75 a day. Having served these three years he will be obliged to go into the carpenters' union. The union will be hold ing out persuasions before this; but, generally speaking, in most cities it s not necessary to join the union till after three years' preparatory work. Your boy's standing in the union will be that of apprentice, which will continue for two years. His pay will be \$2 a day, and his work, if inside, will be making doors, sash and blinds, mantels, wainscoting, etc., and, outside, the general work of carpentry on

buildings. After these nve years of preparation, your boy will have finished his course of training and be known as a full-fledged master carpenter, able to do any of the work that any carpenter of that stage is capable of, and his pay will be around \$4 a day of eight hours for inside work, and "1 more when employed on the outside And all this by the time he comes of age at 21. There are few occupations that offer returns as large as this to

Advancement from here on to higher positions depends, as a rule, on much more than has been learned in 'the routine work your boy has tol-

lowed during his apprenticeship. He will have realized long before the end of his first five years that he must depractice if he expected to get into higher positions, and will have been burning midnight oil for s long while

There is a wide difference between a mere carpenter and a carpenters' foreman-so great a difference that one cannot become a foreman, except in most exceptional cases, without having acquired a fair working knowledge of mechanical drawing; and to be a regular building foreman, in charge of the workmen on large buildings, much more is necessary. regular inside carpenters' foreman is paid from \$6 to \$8 a day; and after a very few years, if an opening occurs, he is apt to be made superintendent of the particular plant he works for at n regular salary of \$2,000 to \$2,500, or even \$3,000 annually. This position, however, is about the end of possible advancement at inside work, except he should become a member of the

A building foreman who occupies a still higher position should have a good working acquaintance with ge ometry and mensuration, excavating, shoring and piling, footings and foundations, the mechanics of carpentry, joinery, stair building, builders' hardware, roofing, mill design and also know something of building stone, stone masoury, concrete construction, lathing, plastering, tiling, brickwork, roofing, sheet metal work, fireproofing, etc.

All this sounds like a formidable list-reads like taking a college ourse, you may think, but will not be so difficult for an ambitious boy; for evening study and practical application of what he has learned at every opportunity during his work, if persisted in for years, will enable him to acquire it all and to be fully compatent to take the responsible position when it is offered to him.

You can see the advancement from tere on as straight and clear as can be; for the building foreman on large important work, who is paid \$3,000 or \$4,000 a year, is too responsible a man to be lost sight of and will be given the first opening as superintendent that hoppens along, and be fore many years will find himself in nort of general superintendent over other superintendents in charge of the construction of numerous establishnetras. He can take a specialty if he wishes and become a constructing engineer; for there are numerous routes to high success from responsible foremanships, and the pay is ample to satisfy anybody.

If he chooses your boy can get himself into business for himself; for a skilled carpenter is quite competent to take the erection of a small frame house, and this will give him his independent start.

All building trades are pretty much alike in general features and pay and hours, and will bring the young work er to about the same position as su-perintendent. Some of the other trades are different, however, and will be taken up in future articles.

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Unique Old

Lying so much off the beaten track, the village of Port Lesne in the Jura department of France is visited by but few from the outside world, and consequently this tiny community of men and women of color is but little known. It is not a large village, for ttn inhabitants number but little more than a hundred, but every one is either black, or of copper color or palish yellow. It owes its origin to the fact that about a century ago the famous negro chief, Toussaint-L'Guvorture, was brought from Hayti and imprisoned in Fort de Joux. Many of his friends, all negroes, followed him and encomped near his prison on the bank of the little river Loue. From that encampment grew the village of Port Lesne, and when Toussaint-L'Ouverture died more than a hundred years ago his friends decided to remain in France. The passing of years and intermarriages have trans formed the settlement into a French village of colored folk, all of whom have the vote. Port Lesne is thus probably the most unique spot in all France.

Government Dam in the Hudson. The dam which the United States government is planning to construct at Troy across the Hudson river will the out a number of factories and mills in that region by using water The head furnished by the power. dam will be utilized to generate about 6,000-horse power, and this will be sold to the mills and factories at cost. However, the companies will be required to pay the cost of building the power house. It is estimated that the amount of power utilized will be three times as much as has heretofore beer employed.-Scientific American.

Boston's Good Sense. "Boston wants Walter Wellman to fly from that city." "I should think it would."

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